

## AMENDMENTS TO THE CLAIMS

Please amend the claims as set forth below in marked-up form. This listing of claims will replace all prior versions and listings of claims in the application.

1. (Currently Amended) A vascular insertion assembly, comprising:

an insertion sheath;

a dilator sized to fit inside the insertion sheath, the dilator having a distal end positionable distally beyond a distal end of the insertion sheath;

a first distal hole located ~~at a~~ in the distal end of the ~~vascular insertion assembly dilator;~~

a first indicator located at a proximal end of the vascular insertion assembly, the first indicator being in fluid communication with the first distal hole;

a second distal hole located ~~at-in~~ in the distal end of the ~~vascular insertion assembly insertion sheath;~~ and

a second indicator located at the proximal end of the vascular insertion assembly, the second indicator being in fluid communication with the second distal hole.

Claims 2-3 (Cancelled)

4. (Withdrawn – Previously Presented) The assembly according to claim 1, wherein the first distal hole and the second distal hole are offset from each other to accommodate an insertion angle of the assembly.

5. (Withdrawn – Currently Amended) The assembly according to claim 1 further comprising:

a third distal hole located at the ~~the~~ a distal end of the vascular insertion assembly; and  
a third indicator located at the proximal end of the vascular insertion assembly, the third indicator being in fluid communication with the third distal hole.

6. (Cancelled)

7. (Withdrawn – Previously Presented) The assembly according to claim 1 wherein the first distal hole and the first indicator provide indication of proper insertion of the vascular insertion assembly into a vessel and the second distal hole and the second indicator provide indication of over insertion of the vascular insertion assembly into the vessel.

Claims 8-11 (Cancelled)

12. (Withdrawn -- Previously Presented) The assembly according to claim 5, wherein:

the third distal hole and the third indicator provide indication of an initial insertion of the insertion sheath into a vessel;

the first distal hole and the first indicator provide indication of proper insertion of the insertion sheath into the vessel; and

the second distal hole and the second indicator provide indication of over insertion of the insertion sheath into the vessel.

13. (Previously Presented) The assembly according to claim 1, wherein at least one of the first indicator or the second indicator is a drip hole.

14. (Previously Presented) The assembly according to claim 1, further comprising:  
a first lumen that provides the fluid communication between the first distal hole and the first indicator;  
wherein the first lumen passes through the dilator.

15. (Previously Presented) The assembly according to claim 14, further comprising  
a second lumen that provides the fluid communication between the second distal hole and the second indicator;  
wherein the second lumen passes through the dilator.

16. (Previously Presented) The assembly according to claim 14, further comprising  
a second lumen that provides the fluid communication between the second distal hole and the second indicator;  
wherein the second lumen passes through the insertion sheath.

Claims 17-19 (Cancelled)

20. (Currently Amended) The assembly according to claim ~~18~~ 1, wherein the first distal hole and the second distal hole are spaced apart from each other in a lengthwise direction of the vascular insertion assembly.

21. (Previously Presented) The assembly according to claim 1, further comprising:  
a lumen having a first flow path and a second flow path;  
wherein the first flow path provides the fluid communication between the first distal hole and the first indicator; and  
the second flow path provides the fluid communication between the second distal hole and the second indicator.

22. (Withdrawn – Previously Presented) The assembly according to claim 1, wherein at least one of the first indicator or the second indicator is a pressure gauge.

23. (Cancelled)

24. (Withdrawn – Previously Presented) The assembly according to claim 1 further comprising:  
a differential pressure gauge;

wherein the first distal hole is in fluid communication with a first input hole of the differential pressure gauge and the second distal hole is in fluid communication with a second input hole of the differential pressure gauge, such that the differential pressure gauge indicates when the vascular insertion assembly penetrates the vessel.

25. (Withdrawn) The assembly according to claim 24, wherein the differential pressure gauge is a ball, float gauge.

Claims 26-27 (Cancelled)

28. (Currently Amended) A vascular insertion assembly, comprising:

an insertion sheath having a distal end and a proximate end;

a dilator having a distal end and a proximate end, the dilator being sized to fit in the insertion sheath, the distal end of the dilator positionable distally beyond the distal end of the insertion sheath;

a first distal hole located ~~at a~~ in the distal end of the ~~vascular insertion assembly dilator;~~

a second distal hole located ~~at~~ in the distal end of the ~~vascular insertion assembly insertion sheath,~~ wherein the second distal hole and the first distal hole are spaced apart from each other in a lengthwise direction of the vascular insertion assembly;

a first proximal hole located at a proximal end of the vascular insertion assembly, the first proximal hole being in fluid communication with the first distal hole; and

a second proximal hole located at the proximal end of the vascular insertion assembly, the second proximal hole being in fluid communication with the second distal hole;

wherein the vascular insertion assembly is configured so that fluid flows out of the first proximal hole when the first distal hole enters a vessel and fluid flows out of the second proximal hole when the second distal hole enters the vessel.

29. (Previously Presented) The assembly according to claim 28, wherein at least one of the first distal hole or the second distal hole is in the distal end of the dilator.

30. (Previously Presented) The assembly according to claim 28, wherein at least one of the first distal hole or the second distal hole is in the distal end of the insertion sheath.

31. (Withdrawn – Previously Presented) The assembly according to claim 28, wherein the first distal hole is in the distal end of the dilator and the second distal hole is in the distal end of the insertion sheath.

32. (Withdrawn – Previously Presented) The assembly according to claim 28, wherein the first distal hole and the second distal hole are in the insertion sheath.

33. (Withdrawn – Previously Presented) The assembly according to claim 28, wherein at least one of the combination of the first distal hole and the first proximal hole or the

combination of the second distal hole and the second proximal hole is in fluid communication by way of a lumen that passes through the dilator.

34. (Withdrawn – Previously Presented) The assembly according to claim 28, wherein the first distal hole and the second distal hole are staggered.

35. (Withdrawn – Previously Presented) The assembly according to claim 28, further comprising:

a penetration gauge that includes an indicator, a first access hole, and a second access hole;

wherein the first access hole is in fluid communication with the first proximal hole and the second access hole is in fluid communication with the second proximal hole, such that the indicator provides indication of when the vascular insertion assembly penetrates the vessel.

36. (Withdrawn – Previously Presented) The assembly according to claim 28, wherein at least one of the combination of the first distal hole and the first proximal hole or the combination of the second distal hole and the second proximal hole is in fluid communication by way of a lumen that passes through the insertion sheath.

37. (Withdrawn – Previously Presented) The assembly according to claim 28, wherein the first distal hole and the first proximal hole are in fluid communication by way of a

lumen that passes through the dilator and the second distal hole and the second proximal hole are in fluid communication by way of a lumen that passes through the insertion sheath.

38. (Withdrawn – Previously Presented) The assembly according to claim 28, wherein the first distal hole and the first proximal hole are in fluid communication by way of a lumen that passes through the insertion sheath and the second distal hole and the second proximal hole are in fluid communication by way of a lumen that passes through the insertion sheath.

39. (Withdrawn – Previously Presented) The assembly according to claim 28, further comprising:

a third distal hole located at the distal end of the vascular insertion assembly; and

a third proximal hole located at the proximal end of the vascular insertion assembly, the third proximal hole being in fluid communication with the third distal hole.

Claims 40-44 (Cancelled)

45. (Currently Amended) A vascular insertion assembly, comprising:

a distal end where a first distal hole and a second distal hole are located; and

a proximal end where a first indicator and a second indicator are located;

an insertion sheath, wherein the second distal hole is located in the insertion sheath;



a dilator sized to fit inside the insertion sheath, the dilator having a distal end positionable distally beyond a distal end of the insertion sheath, wherein the first distal hole is located in the distal end of the dilator;

wherein the first distal hole is in fluid communication with the first indicator and the second distal hole is in fluid communication with the second indicator; and

wherein the second distal hole is spaced apart from the first distal hole in a proximal direction.

46. (Currently Amended) A vascular insertion assembly, comprising:

a distal end where a first distal hole and a second distal hole are located; and

a proximal end where a first indicator and a second indicator are located;

an insertion sheath, wherein the second distal hole is located in the insertion sheath;

a dilator sized to fit inside the insertion sheath, the dilator having a distal end positionable distally beyond a distal end of the insertion sheath, wherein the first distal hole is located in the distal end of the dilator;

wherein the first distal hole is in fluid communication with the first indicator and the second distal hole is in fluid communication with the second indicator; and

wherein the first indicator provides an indication that the vascular insertion assembly is at one depth in a vessel and the second indicator provides an indication that the vascular insertion assembly is at another depth in the vessel.

47. (Currently Amended) A vascular insertion assembly, comprising:

an insertion sheath having a distal end and a proximate end;

a dilator sized to fit inside the insertion sheath, the dilator having a distal end and a proximate end, the distal end of the dilator positionable distally beyond the distal end of the insertion sheath;

a first inlet port located ~~at a~~ in the distal end of the ~~vascular insertion assembly dilator;~~

a first outlet port located at a proximal end of the vascular insertion assembly, the first outlet port being in fluid communication with the first inlet port so that when the first inlet port penetrates a vessel the first outlet port indicates an initial penetration of the vascular insertion assembly into the vessel;

a second inlet port in the distal end of the insertion sheath;

a second outlet port located at the proximal end of the vascular insertion assembly, the second outlet port being in fluid communication with the second inlet port so that when the second inlet port penetrates the vessel the second outlet port indicates over insertion of the vascular insertion assembly into the vessel.

48. (Currently Amended) A vascular insertion assembly comprising:

a distal end where a first distal hole and an over insertion hole are located;

an insertion sheath, wherein the over insertion hole is located in the insertion sheath;

a dilator sized to fit inside the insertion sheath, the dilator having a distal end positionable distally beyond a distal end of the insertion sheath, wherein the first distal hole is located in the distal end of the dilator;

wherein the vascular insertion assembly is configured so that the first distal hole provides an indication that the vascular insertion assembly has penetrated a vessel and the over insertion hole provides an indication that the vascular insertion assembly has penetrated too far into the vessel.

49. (Previously Presented) The assembly according to claim 48 wherein the indication provided by the first distal hole and the over insertion hole is at a proximal end of the vascular insertion assembly.

50. (Previously Presented) The assembly according to claim 45 comprising an insertion sheath and a dilator sized to fit inside the insertion sheath.

51. (Previously Presented) The assembly according to claim 45 wherein a third distal hole is located at the distal end of the vascular insertion assembly and a third indicator is located at the proximal end of the vascular insertion assembly, the third distal hole being in fluid communication with the third indicator.

52. (Previously Presented) The assembly according to claim 45 wherein the first indicator includes a first proximal hole and the second indicator includes a second proximal hole.

53. (Previously Presented) The assembly according to claim 46 wherein the second indicator provides an indication that the vascular insertion assembly has been over inserted into the vessel.

54. (Previously Presented) The assembly according to claim 46 wherein the first indicator includes a first proximal hole and the second indicator includes a second proximal hole.

55. (Currently Amended) The assembly according to claim 47, wherein the first inlet port ~~s~~is in the distal end of the dilator.

56. (Previously Presented) The assembly according to claim 47, wherein the first inlet port is in the distal end of the insertion sheath.

57. (Previously Presented) The assembly according to claim 47, wherein at least one of the combination of the first inlet port and the first outlet port or the combination of the second inlet port and the second outlet port is in fluid communication by way of a lumen that passes through the dilator.

58. (Previously Presented) The assembly according to claim 47, wherein at least one of the combination of the first inlet port and the first outlet port or the combination of the second inlet port and the second outlet port is in fluid communication by way of a lumen that passes through the insertion sheath.

59. (Previously Presented) The assembly according to claim 47, wherein the first inlet port and the first outlet port are in fluid communication by way of a lumen that passes through the dilator and the second inlet port and the second outlet port are in fluid communication by way of a lumen that passes through the insertion sheath.

60. (Previously Presented) The assembly according to claim 47, wherein the first inlet port and the first outlet port are in fluid communication by way of a lumen that passes through the insertion sheath and the second inlet port and the second outlet port are in fluid communication by way of a lumen that passes through the insertion sheath.